

In re Application of:  
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Application No.: 09/628,112  
Filed: July 27, 2000  
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PATENT  
Atty Docket No.: JHU1120-11

**Amendments to the Claims**

Please amend claims 1, 34, 37, 40 and 43-45 as indicated in the listing of claims.

Please cancel claims 2-3, 35-36, 38-39 and 41-42 without prejudice or disclaimer.

Please add new claims 46 and 47 as indicated in the listing of the claims.

Claims 4-33 were previously withdrawn.

The listing of claims will replace all prior versions, and listings of claims in the application.

**Listing of Claims:**

1. (Currently amended) A substantially purified peptide of a promyostatin polypeptide, said peptide comprising a promyostatin signal peptide domain having signal peptide activity corresponding to amino acid residues from about 1 to 20 of a full length promyostatin polypeptide, wherein the promyostatin polypeptide is selected from the group consisting of human (SEQ ID NO:2), murine (SEQ ID NO:4), rat (SEQ ID NO:6), chicken (SEQ ID NO:8), baboon (SEQ ID NO:10), bovine (SEQ ID NO:12), porcine (SEQ ID NO:14), ovine (SEQ ID NO:16), turkey (SEQ ID NO:18), and zebrafish (SEQ ID NO:20).

2.-3. (Canceled).

4. – 33. (Withdrawn).

34. (Currently amended) A substantially purified peptide of a promyostatin polypeptide, said peptide having myostatin binding activity comprising a promyostatin prodomain corresponding to amino acid residues about 20 to 262 or 263 of a full length promyostatin polypeptide, wherein the promyostatin polypeptide is selected from the group consisting of human (SEQ ID NO:2), murine (SEQ ID NO:4), rat (SEQ ID NO:6), chicken (SEQ ID NO:8), baboon (SEQ ID NO:10), bovine (SEQ ID NO:12), porcine (SEQ ID NO:14), ovine (SEQ ID NO:16), turkey (SEQ ID NO:18), and zebrafish (SEQ ID NO:20).

35. – 36. (Canceled).

37. (Currently amended) The peptide of claim 34, wherein the promyostatin prodomain corresponding to amino acid residues about 20 to 262 of the promyostatin polypeptide is selected from the group consisting of comprises:

~~amino acid residues about 20 to 263 as set forth in SEQ ID NO: 4;~~  
~~amino acid residues about 20 to 262 as set forth in SEQ ID NO: 2;~~  
~~amino acid residues about 20 to 262 as set forth in SEQ ID NO: 10;~~  
~~amino acid residues about 20 to 262 as set forth in SEQ ID NO: 12;~~  
~~amino acid residues about 20 to 262 as set forth in SEQ ID NO: 8;~~  
~~amino acid residues about 20 to 263 as set forth in SEQ ID NO: 6;~~  
~~amino acid residues about 20 to 262 as set forth in SEQ ID NO: 18;~~  
~~amino acid residues about 20 to 262 as set forth in SEQ ID NO: 14;~~  
~~amino acid residues about 20 to 262 as set forth in SEQ ID NO: 16; or and~~  
~~amino acid residues about 20 to 262 as set forth in SEQ ID NO: 20.~~

38.-39. (Canceled).

40. (Currently amended) A substantially purified peptide of a promyostatin polypeptide, said peptide having muscle growth inhibitory activity comprising a promyostatin myostatin domain corresponding to amino acid residues about 267 or 268 to 374 or 375 of a full length promyostatin polypeptide, wherein the promyostatin polypeptide is selected from the group consisting of human (SEQ ID NO:2), murine (SEQ ID NO:4, rat (SEQ ID NO:6), chicken (SEQ ID NO:8), baboon (SEQ ID NO:10), bovine (SEQ ID NO:12), porcine (SEQ ID NO:14), ovine (SEQ ID NO:16), turkey (SEQ ID NO:18, and zebrafish (SEQ ID NO:20).

41.-42. (Canceled).

43. (Currently amended) The peptide of claim 40, wherein the myostatin domain corresponding to amino acid residues about 267 to 374 of the promyostatin polypeptide is selected fro the group consisting of eompries:

~~amino acid residues about 268 to 375 as set forth in SEQ ID NO: 4;~~  
~~amino acid residues about 267 to 374 as set forth in SEQ ID NO: 2;~~  
~~amino acid residues about 267 to 374 as set forth in SEQ ID NO: 10;~~  
~~amino acid residues about 267 to 374 as set forth in SEQ ID NO: 12;~~  
~~amino acid residues about 267 to 374 as set forth in SEQ ID NO: 8;~~  
~~amino acid residues about 268 to 375 as set forth in SEQ ID NO: 6;~~  
~~amino acid residues about 267 to 374 as set forth in SEQ ID NO: 18;~~  
~~amino acid residues about 267 to 374 as set forth in SEQ ID NO: 14;~~  
~~amino acid residues about 267 to 374 as set forth in SEQ ID NO: 16; or~~ and  
~~amino acid residues about 267 to 374 as set forth in SEQ ID NO: 20.~~

44. (Currently Amended) A substantially purified peptide of a promyostatin polypeptide, said peptide comprising a promyostatin prodomain comprising:

amino acid residues from about 1 to 44 of SEQ ID NO:27; or  
amino acid residues from about 1 to 23 of SEQ ID NO:29.

45. (Currently Amended) A substantially purified peptide of a promyostatin polypeptide, said peptide comprising a promyostatin myostatin domain comprising:

amino acid residues from about 49 to 157 of SEQ ID NO: 27; or  
amino acid residues from about 28 to 136 of SEQ ID NO: 29.

46. (New) The peptide of claim 34, wherein the promyostatin prodomain corresponding to amino acid residues from about 20 to 263 of the full length promyostatin polypeptide is set forth in SEQ ID NO: 4 or SEQ ID NO: 6.

47. (New) The peptide of claim 40, wherein the promyostatin myostatin domain corresponding to amino acid residues from about 268 to 375 of the full length promyostatin polypeptide is set forth in SEQ ID NO: 4 or SEQ ID NO:6.